

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/137 A61K31/28 A61K31/295 A61K31/4402 A61K31/66 C07F9/50 C07F17/00 C07F17/02		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C07F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) CHEM ABS Data, BIOSIS, EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	ARES, RAQUEL ET AL: "Functionalized cyclopalladated compounds with bidentate Group 15 donor atom ligands: the crystal and molecular structures of {Pd{5-(COH)C6H3C(H):NCy-C2,N!(C1)}2(.mu.-Ph2PRPP h2)! (R = CH2CH2, Fe(C5H4)2), {Pd{5-(COH)C6H3C(H):NCy-C2,N}(Ph2PCH2PPh2-P,P)!PF6! and {Pd{5-(COH)C6H3C(H):N(Cy)-C2,N}(Ph2PCH2PPh2)!PF6! JOURNAL OF ORGANOMETALLIC CHEMISTRY (3-1-2003), 665(1-2), 76-86 , XP004401800 ISSN: 0022-328X compounds 6 & 12 introduction --- -/--	1, 3, 6-93
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
12 November 2003		28/11/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Elliott, A

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>ARES, RAQUEL ET AL: "Cyclopalladated compounds with bridging and chelating diphosphine ligands Effect of ring size. Crystal and molecular structure of $\{Pd[4-(COH)C_6H_3C(H):N(Cy)-C_2,N!(C1)]_2(\mu.-Ph_2PCH_2PPh_2)!\}$" POLYHEDRON (1-10-2002), 21(22), 2309-2315</p> <p>XP002261129 ISSN: 0277-5387 compounds 6 & 13 introduction</p> <p>---</p>	1,3,6-93
P,X	<p>FERNANDEZ, ALBERTO ET AL: "The first crystal and molecular structure of a syn-acetato-bridged dinuclear cyclometallated complex $\{Pd\{2,3,4-(MeO)_3C_6HC(H):NCH_2CH_2OH\}(\mu.OAc)\}_2\}$" EUROPEAN JOURNAL OF INORGANIC CHEMISTRY (9-2002), (9), 2389-2401 , XP002261130 ISSN: 1434-1948 compound 12</p> <p>---</p>	3
X	<p>FERNANDEZ, ALBERTO ET AL: "Cyclopalladated compounds derived from a 'C,N,S! terdentate ligand: synthesis, characterization and reactivity. Crystal and molecular structures of $\{Pd\{2-C_1C_6H_3C(H):NCH_2CH_2SMe\}(C1)\}$ and $\{Pd\{2-C_1C_6H_3C(H):NCH_2CH_2SMe\}_2(\mu.-Ph_2P(CH_2)_4PPH_2)\}$! 'CF3SO3!2" NEW JOURNAL OF CHEMISTRY (25-1-2002), 26(1), 105-112 , XP009020790 ISSN: 1144-0546 compound 7</p> <p>---</p>	3
X	<p>VILA, JOSE M. ET AL: "Novel cyclopalladated ferrocenyl Schiff base compounds with bridging and chelating diphosphines. Crystal and molecular structure of $\{Pd\{(.eta.5-C_5H_5)Fe(.eta.5-C_5H_3)C(H):N-2,4,6-Me_3C_6H_2!\}\{Ph_2P(CH_2)_nPPH_2- P,P\}!\}$ 'PF6! (n = 1, 2)" JOURNAL OF ORGANOMETALLIC CHEMISTRY (3-12-2001), 637-639, 577-585 , XP004323943 ISSN: 0022-328X compounds 7 & 12</p> <p>---</p> <p style="text-align: center;">-/--</p>	2,3

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
X	<p>CASTRO-JUIZ, SAMUEL ET AL: "Directed regioselectivity in cyclometallated palladium(II) compounds of N-benzylidenebenzylamines. Crystal and molecular structure of $\text{[Pd}\{3,4-(\text{OCH}_2\text{O})\text{C}_6\text{H}_2\text{C}(\text{H})\text{:NCH}_2\{3,4-(\text{OCH}_2\text{O})\text{C}_6\text{H}_3\text{-C}_2\text{N}\}(\mu\text{-O}_2\text{CMe})\}_2\text{]}$" POLYHEDRON (15-11-2001), 20(24-25), 2925-2933 , XP002261131 ISSN: 0277-5387 compound 7a introduction</p> <p>---</p>	3,6-93
X	<p>ANANIAS, SANDRA R. ET AL: "Cleavage of the dimeric cyclopalladated $\text{[Pd(N,C-dmba)(}\mu\text{-X)]}_2$, (dmba = N,N-dimethylbenzylamine; X = SCN and NCO) by diphosphines. Palladium(II) compounds with distinct structures in the solid-state and in solution" TRANSITION METAL CHEMISTRY (DORDRECHT, NETHERLANDS) (2001), 26(4-5), 570-573 , XP009020786 ISSN: 0340-4285 compounds 2b & 2c introduction</p> <p>---</p>	2-4,6-93
X	<p>LOUSAME, MARIELA ET AL: "Synthesis and single-crystal X-ray diffraction studies of new cyclometallated phenylimidazole palladium(II) compounds" EUROPEAN JOURNAL OF INORGANIC CHEMISTRY (9-2000), (9), 2055-2062 , XP002261132 ISSN: 1434-1948 compounds 6 & 9 introduction, end of 2nd paragraph</p> <p>---</p>	2,3,6-93
X	<p>MA, JIAN-FANG ET AL: "Reaction of di-μ-dichloro-bis(N,N-dimethylbenzylamine- C₂,N)dipalladium(II) with diphosphines. Six-membered ring complexes bearing spiro rings" INORGANICA CHIMICA ACTA (15-3-2000), 299(2), 164-171 , XP002261133 ISSN: 0020-1693 figures 1,4</p> <p>---</p> <p style="text-align: center;">-/--</p>	2-4,6-93

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BOEHM, ANDREAS ET AL: "Metal complexes of biologically important ligands. Part 104. Ortho-palladated complexes of N,N-dimethyl(phenyl)glycine methyl ester. Synthesis of alpha.-amino acid derivatives by insertion of isocyanides, CO, alkenes, and alkynes into the Pd-C bond" ZEITSCHRIFT FUER NATURFORSCHUNG, B: CHEMICAL SCIENCES (1998), 53(4), 448-458 , XP009020783 ISSN: 0932-0776 compound 3</p>	3
X	<p>--- ZHAO, GANG ET AL: "Optically active cyclopalladated derivatives of arylimines. Crystal structures of 'cyclic! (+)-{Pd{p-MeOC6H3CH:NCH2-(1S,2R,5S)-CHCH2CH2CHCMe2CHCH2!(.mu.-X)}2! (X = Cl or Br), 'cyclic! (+)-{Pd{p-MeOC6H3CH:NCH2-(1S,2R,5S)-CHCH2CH2CHCMe2CHCH2}Cl(PPh3)! and 'cyclic! (+)-{Pd{p-MeOC6H3CH:NCH2-(1S,2R,5S) JOURNAL OF THE CHEMICAL SOCIETY, DALTON TRANSACTIONS: INORGANIC CHEMISTRY (1998), (7), 1241-1247 , XP002261134 ISSN: 1472-7773 compounds 4a, 4b & 4c</p>	3
X	<p>--- ZHAO, GANG ET AL: "Diastereoselective Cyclopalladation of New Chiral Ferrocenylimines (-)-{(.eta.5-C5H5)Fe{.eta.5-C5H4C(R):NCH2-(1S,2R,5S)- CHCH2CH2CHC(CH3)2CHCH2}!. Crystal Structures of (Sp)-{Pd{(.eta.5-C5H3C(R):NCH2-(1S,2R,5S)-CHCH2CH2CHC(CH3)2CHCH2)Fe(.eta.5-C5H5)}(PPh3)Cl! (R = H or Me)" ORGANOMETALLICS (2-7-1997), 16(18), 4023-4026 , XP002261135 ISSN: 0276-7333 compounds 9 & 10</p>	3
A	<p>--- US 5 880 149 A (GRAY HARRY B ET AL) 9 March 1999 (1999-03-09) cited in the application the whole document ---</p>	1-93

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with Ind. where appropriate, of the relevant passages	Relevant to claim No.
A	<p>QUIROGA A G ET AL: "Novel tetranuclear orthometalated complexes of Pd(II) and Pt(II) derived from p-isopropylbenzaldehyde thiosemicarbazone with cytostatic activity in cis-DDP resistant tumor line cells. Interaction of these complexes with DNA" JOURNAL OF MEDICINAL CHEMISTRY (23-4-1998), 41(9), 1399-1408, XP002261136 ISSN: 0022-2623 the whole document</p> <p>---</p>	1-93
A	<p>NAVARRO-RANNINGER C ET AL: "Cyclometalated complexes of platinum and palladium with N-(4-chlorophenyl)-alpha-benzoylbenzyliden eamine. In vitro cytostatic activity, DNA modification and interstrand cross-link studies" INORGANIC CHEMISTRY (28-8-1996), 35(18), 5181-7, XP002261137 ISSN: 0020-1669 the whole document</p> <p>---</p>	1-93
A	<p>NAVARRO-RANNINGER CARMEN ET AL: "Analysis of two cycloplatinated compounds derived from N-(4-methoxyphenyl)-alpha-benzoylbenzylide namide: Comparison of the activity of these compounds with other isostructural cyclopalladated compounds" JOURNAL OF MEDICINAL CHEMISTRY (26-11-1993), 36(24), 3795-3801, XP002261138 ISSN: 0022-2623 the whole document</p> <p>-----</p>	1-93

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

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because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

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2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

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- ☐ No protest accompanied the payment of additional search fees.

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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